

**Notice of Allowability**

Application No.

09/609,019

Examiner

Brandon S. Hoffman

Applicant(s)

YACOBI ET AL.

Art Unit

2136

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to RCE/Petition to W/D filed May 24, 2005.
2. ☒ The allowed claim(s) is/are 20,30,41-46,48-52 and 55.
3. ☒ The drawings filed on 26 April 2004 and 20 April 2005 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets" ) must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948 ) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
**EMMANUEL L. MOISE**  
**SUPERVISORY PATENT EXAMINER**

## **DETAILED ACTION**

### ***Allowable Subject Matter***

1. Claims 20, 30, 41-46, 48-52, and 55 are allowed.

### ***Examiner's Comment***

2. This action is pursuant to an RCE (request for continued examination) and petition to withdraw from issue filed by the applicant; which is in response to the printer rush stating the drawings were incorrectly numbered. Applicant was advised to petition to withdraw from issue and file a corresponding RCE with corrected drawings and specification. This was due to the issue fee already being paid. The RCE re-opened prosecution so the corrections to the drawings and specification could be properly entered.

3. The following is an examiner's statement of reasons for allowance: in view of the amendment, dated August 30, 2004, applicant explains the deficiencies of the rejection of claim 20 pertaining to the limitation of generating matrix coefficients "such that each of the R', G', and B' signals will be the product of summing two signals in the set of analog signals R, G, B and subtracting one of the signals in the set of analog signals R, G, B." (See page 15 of Amendment filed August 30, 2004).

4. The prior art also fails to teach or suggest the limitation of claim 30, more precisely, pertaining to matrix multiplication involves "summing an integer multiple of

two of the first, second and third signals and subtracting an integer multiple of another one of said first, second and third signals to produce the first encrypted analog signal.” (See page 20 of amendment filed August 30, 2004).

5. The prior art also fails to teach or suggest the limitation of claim 41, namely, pertaining to generating a first decrypted signal by “summing the two encrypted analog signals in the first pair of analog signals to produce a first sum and dividing the first sum by a first value to produce a first decrypted analog signal.” (See page 22 of amendment filed August 30, 2004). An examiner’s amendment (dated December 28, 2004) moved claim 47 into claim 41 to further include the untaught feature of “comparing values in first and second rows of values to identify a first column of values...” and “controlling which one of a plurality of output lines the first decrypted analog signal is transmitted on as a function of the identified column of values.”

6. The prior art also fails to teach or suggest the limitation of claim 55, namely, pertaining to “pseudo-randomly generating an encryption value” and “combining said multiplied signal with at least a second signal generated from a second one of first, second, and third analog input signals to produce said encrypted analog signal, where said encryption value is a matrix coefficient.” (See page 17 of amendment filed August 30, 2004).

Any comments considered necessary by the applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brandon S. Hoffman whose telephone number is 571-272-3863. The examiner can normally be reached on M-F 8:30 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz R. Sheikh can be reached on 571-272-3795. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

*Branda Hoff*

BH

*E. L. Moise*  
**EMMANUEL L. MOISE**  
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